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(74) Agent: ROSENFIELD, Susan, Stone; Fennemore Craig, Suite 2600, 3003 North Central, Phoenix, AZ 85012-2913 (US).

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(72) Inventors; and

(75) Inventors/Applicants (for US only): PETTIT, George, R. [US/US]; 6232 Bret Hills Drive, Paradise Valley, AZ 85253 (US). GREALISH, Matthew, P. [US/US]; 863 Sapphire Street, #13, San Diego, CA 92109 (US).



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(54) Title: STRUCTURAL MODIFICATION OF RESVERATROL: SODIUM RESVERASTATIN PHOSPHATE

(57) Abstract: Described herein are novel compounds having antineoplastic and antimicrobial activity, obtained via structural modifications of resveratrol and combretastatin A-4, methods for synthesis of these compounds, and their use in pharmaceutical composition and for use in the treatment of mammals having cancer. Examples of the novel compounds are: (Z)- and (E)-3,4',5-trimethoxystilbene (4a, 4b); (Z)- and (E)-3,5-dimethoxy-4'-hydroxystilbene (14c, 14d); (Z)-and (E)-3-hydroxy-4',5-dimethoxystilbene (14g, 14h); (Z)-and (E)-3,5-dihydroxy-4'-methoxy-stilbene (14k, 14l); sodium resverastatin dibenzyl phosphate ((Z)-3,5-dimethoxy-4-[O-bis(benzyl)phosphoryl]-stilbene) (14m); and sodium resverastatin phosphate (14n).

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